



CADS - 5350  
Chaylee Waltuck  
Initial Concept

# PAVILION

The Jule Collins Smith Museum

# SITE ANALYSIS



# SITE ANALYSIS

## Key Site Constraints

The pavilion must be located on either the North or South lawn within the designated areas. It cannot go beyond the boundaries or touch the nearby walking paths, staying fully on the grass. The pavilion must have a minimum size of 10'x10' but can be smaller than the total area provided. There are no limits on height, allowing for creative tall designs.

The pavilion should remain open during the day for easy access and be able to close securely at night for safety. Power must come from solar panels or another renewable energy source, ensuring sustainability. The ground can stay as grass or be replaced with a different flooring material. Sustainable construction using recycled or renewable materials is required.



# SITE ANALYSIS

## Site Opportunities

The pavilion offers a chance to stand out with vertical designs since there are no height limits. It can be made visually appealing with creative materials and lighting to look great both during the day and at night. Designers can choose between keeping the grass or adding a unique flooring material to fit the design.

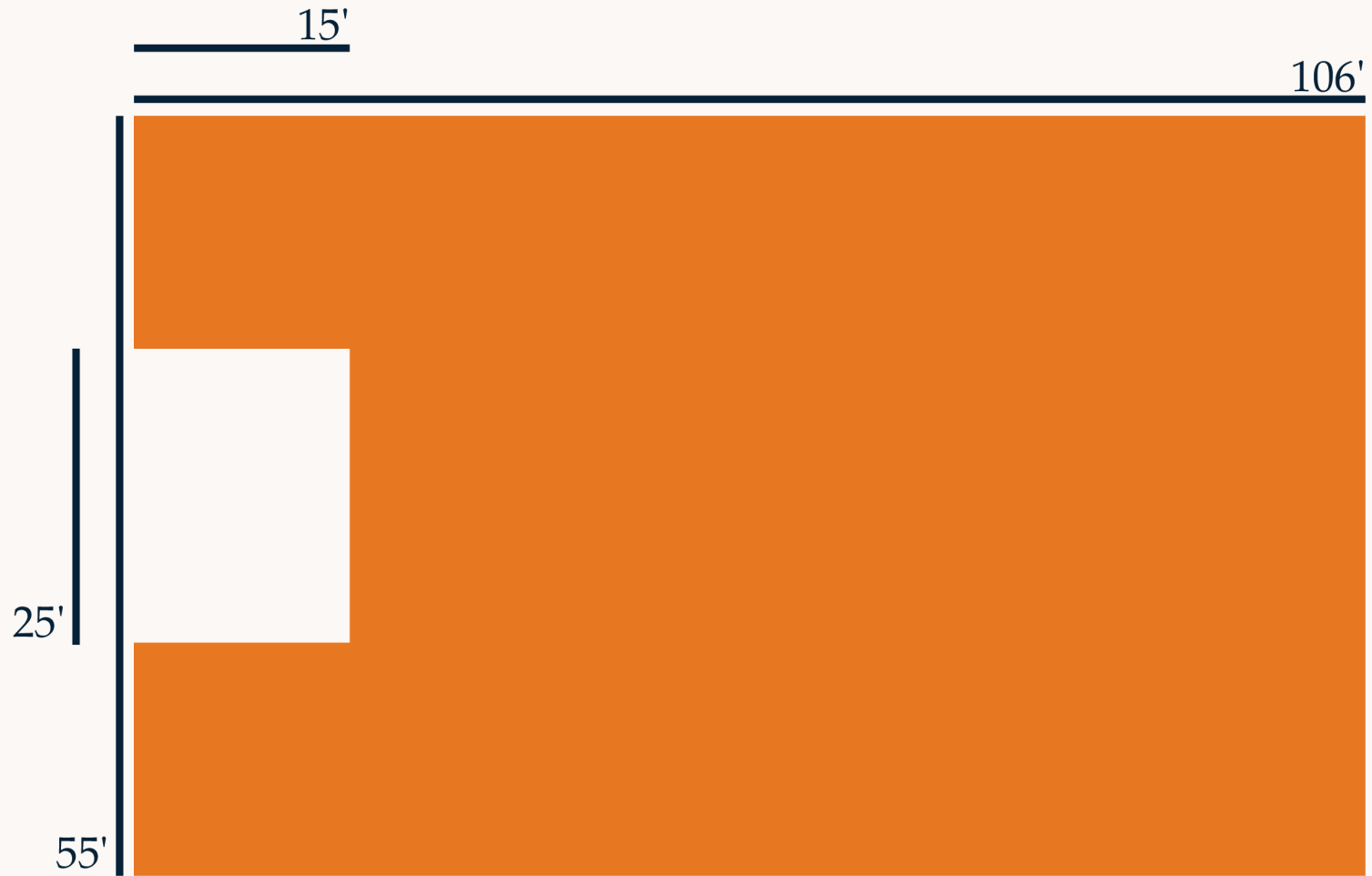
The project also provides an opportunity to showcase sustainability, with renewable energy and eco-friendly materials being key elements. The pavilion should blend into the lawn and paths, inviting people to interact with the space while enhancing the natural surroundings.





# SITE ANALYSIS

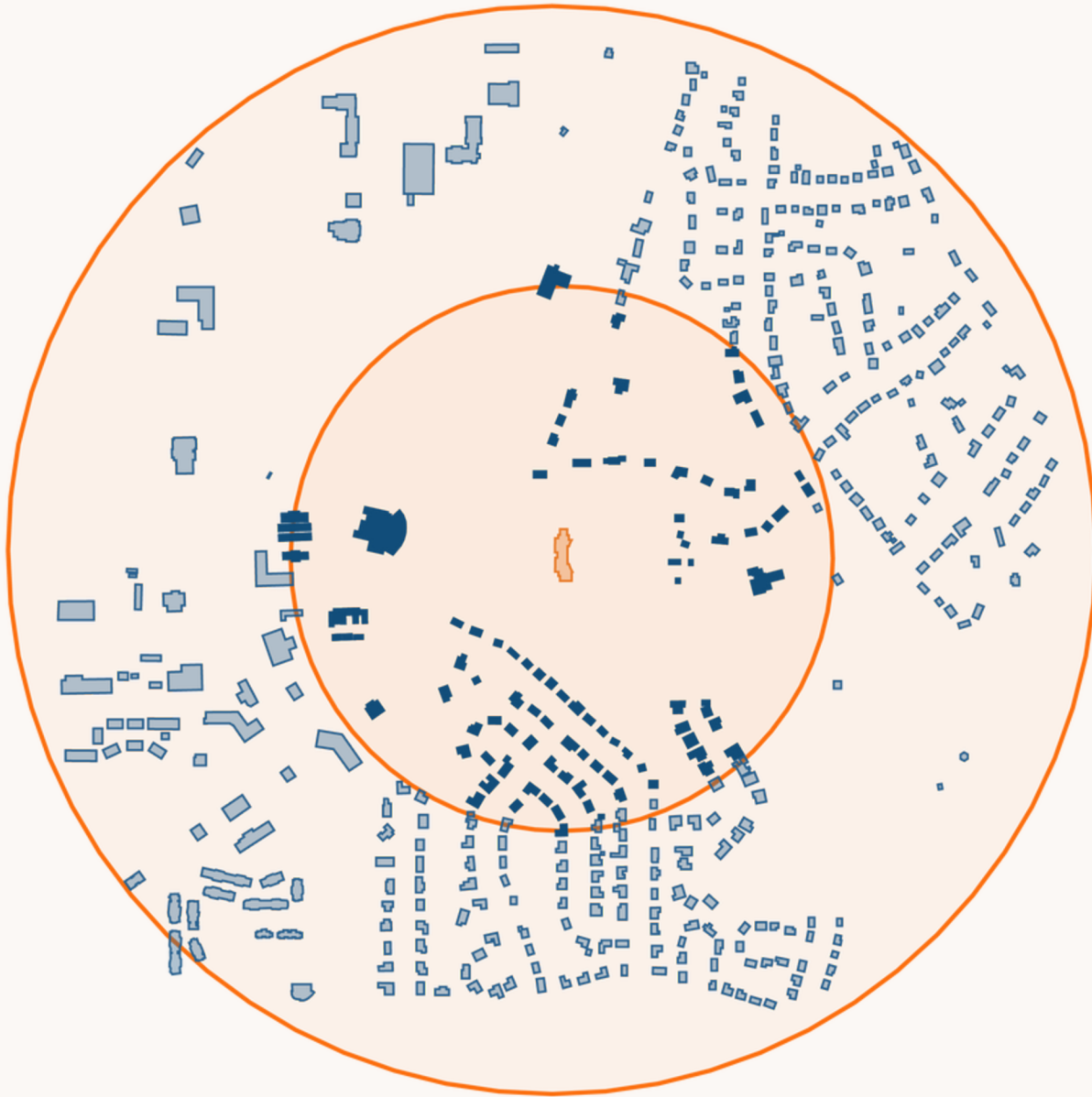
## Measurements



# SITE ANALYSIS DIAGRAMS



# DIAGRAMS

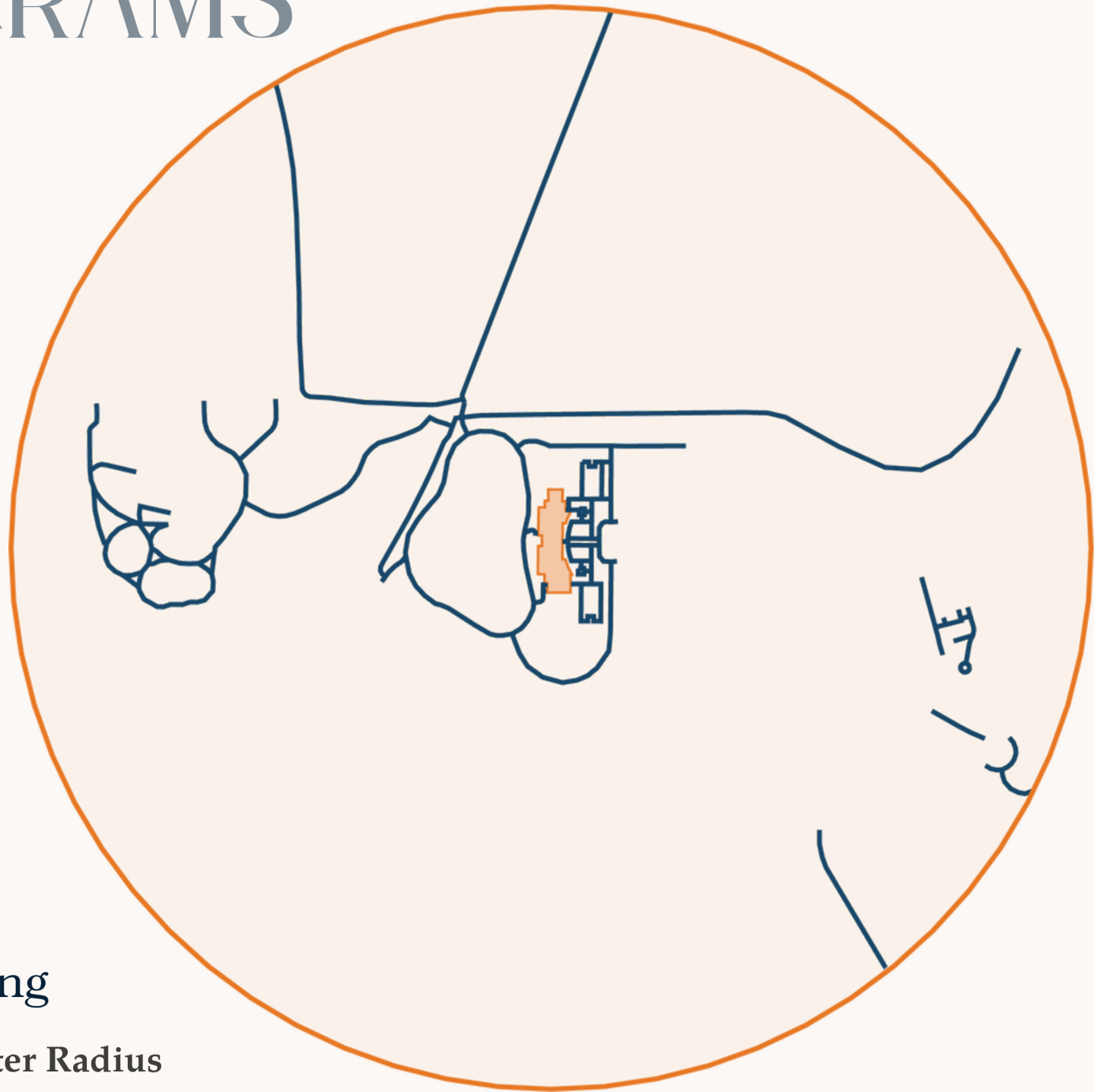


Buildings  
1000 Meter Radius



Buildings  
500 Meter Radius

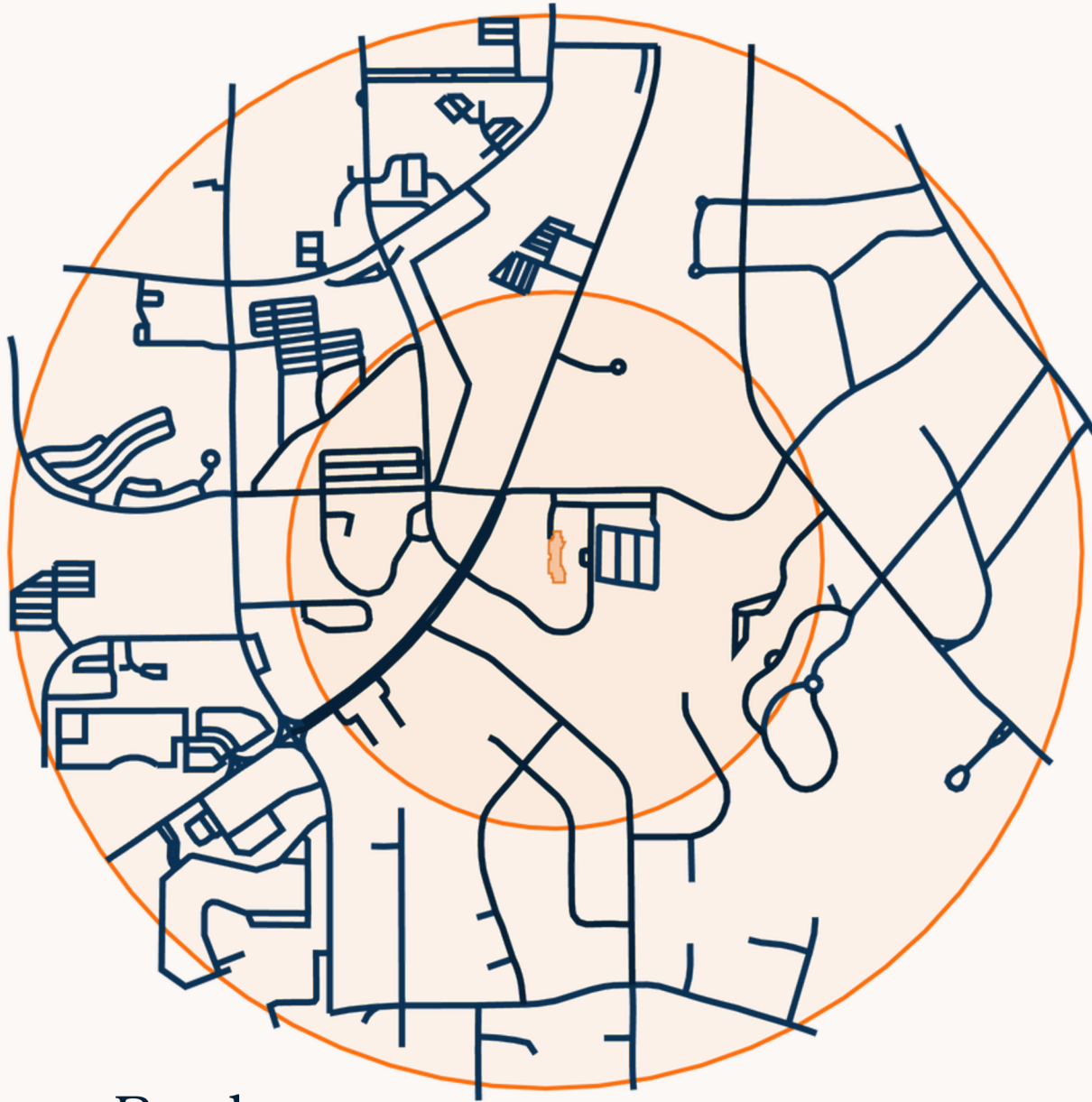
# DIAGRAMS



Walking  
Paths  
500 Meter Radius



# DIAGRAMS

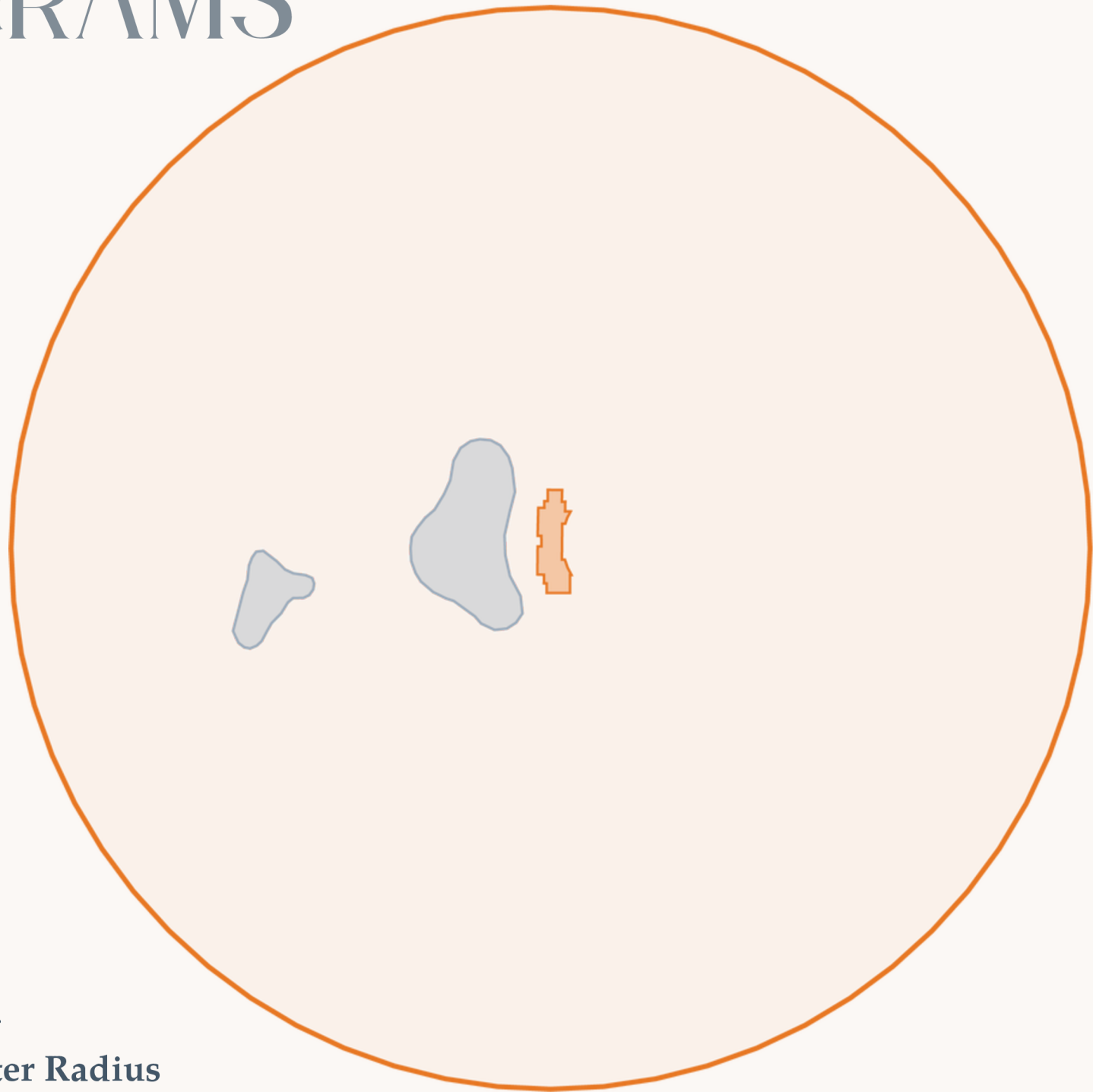


Roads  
1000 Meter Radius



Roads  
500 Meter Radius

# DIAGRAMS



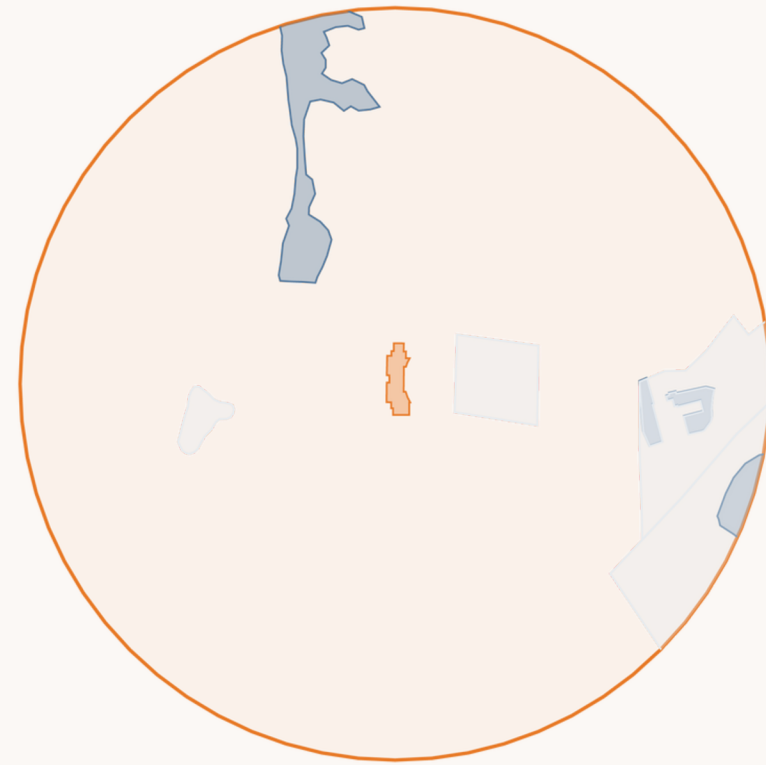
Water  
500 Meter Radius



# DIAGRAMS

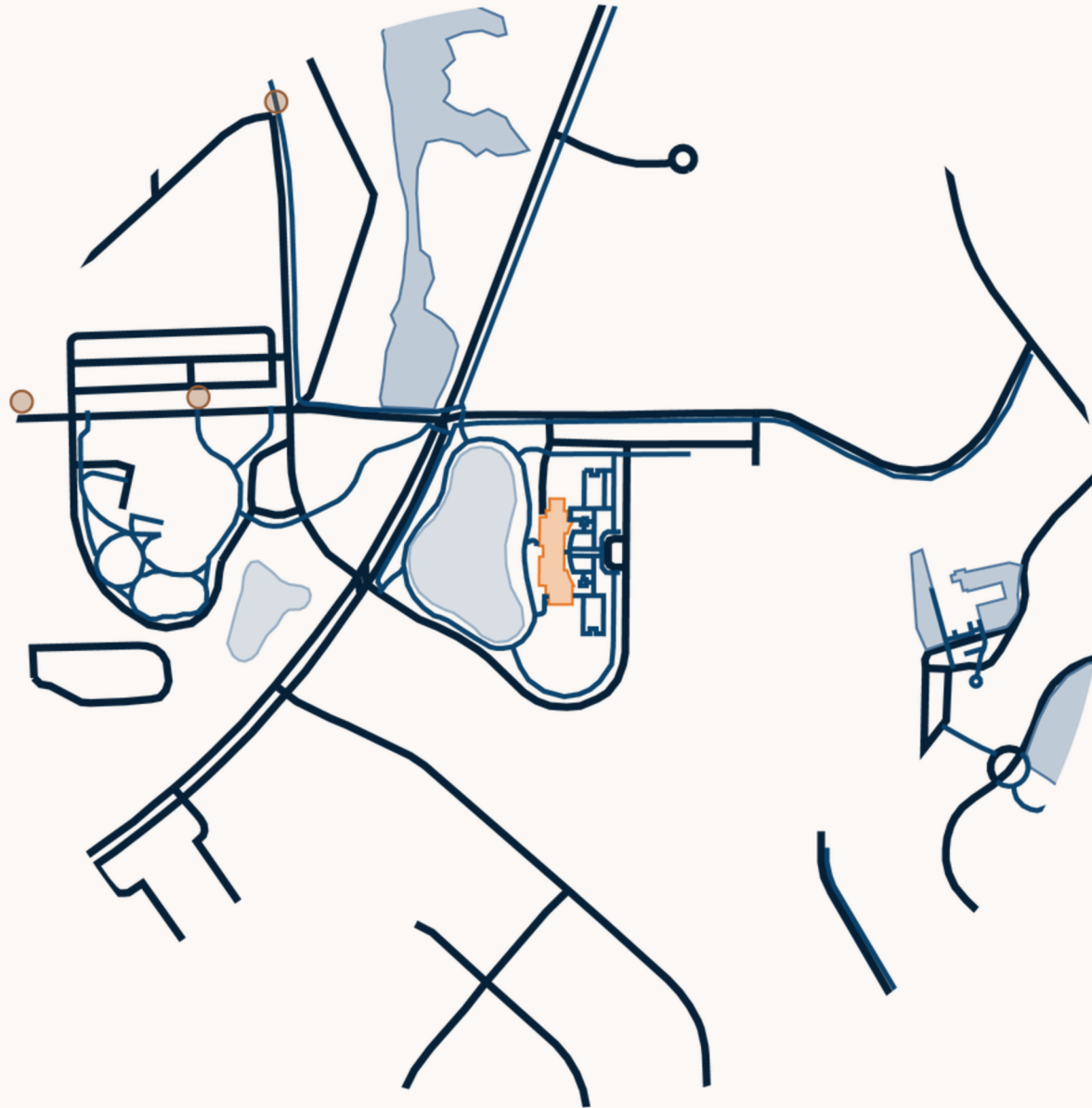


Parks &  
Green Space  
1000 Meter Radius



Parks &  
Green Space  
500 Meter Radius

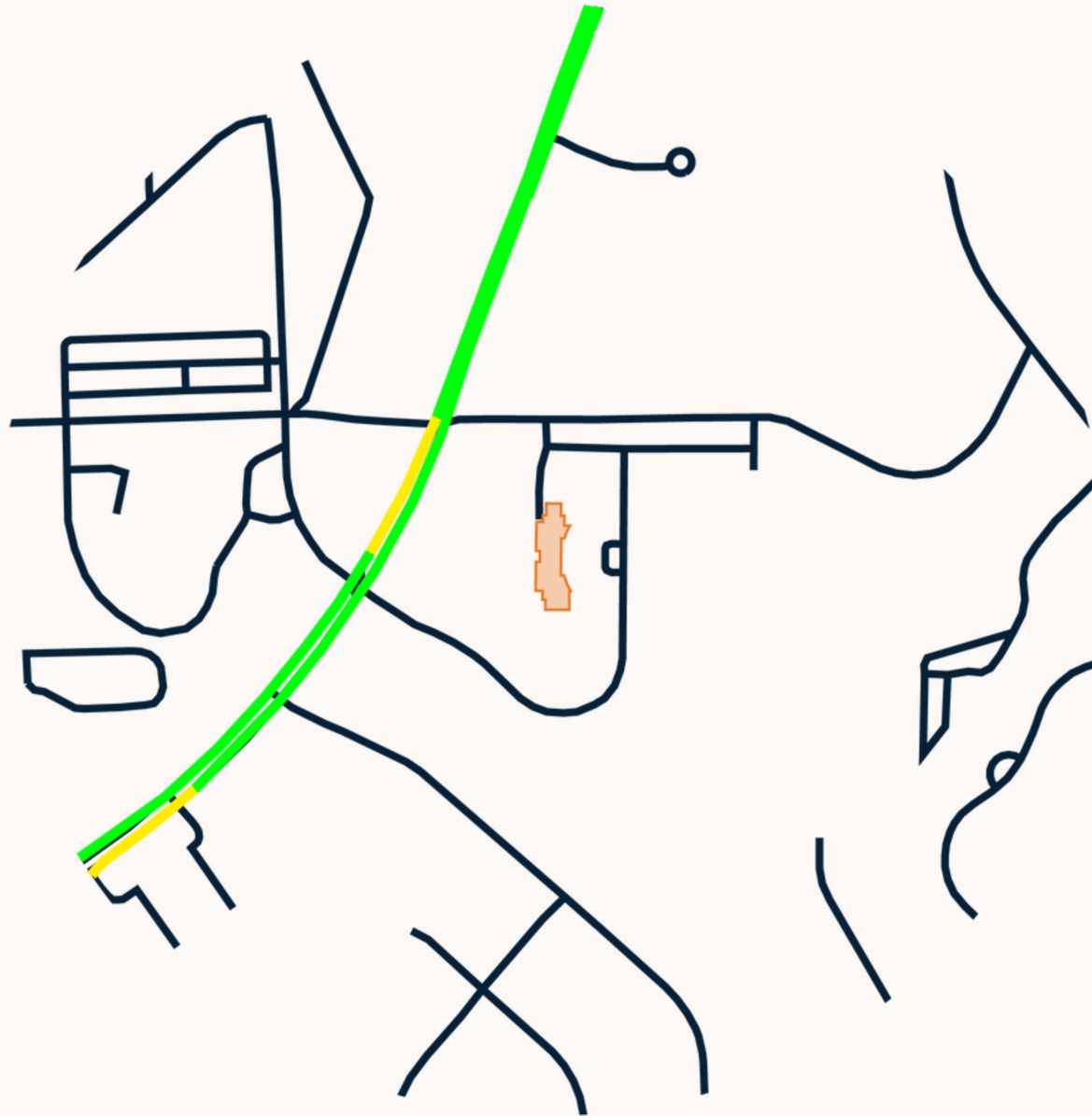
# DIAGRAMS



Public  
Transportation  
500 Meter Radius

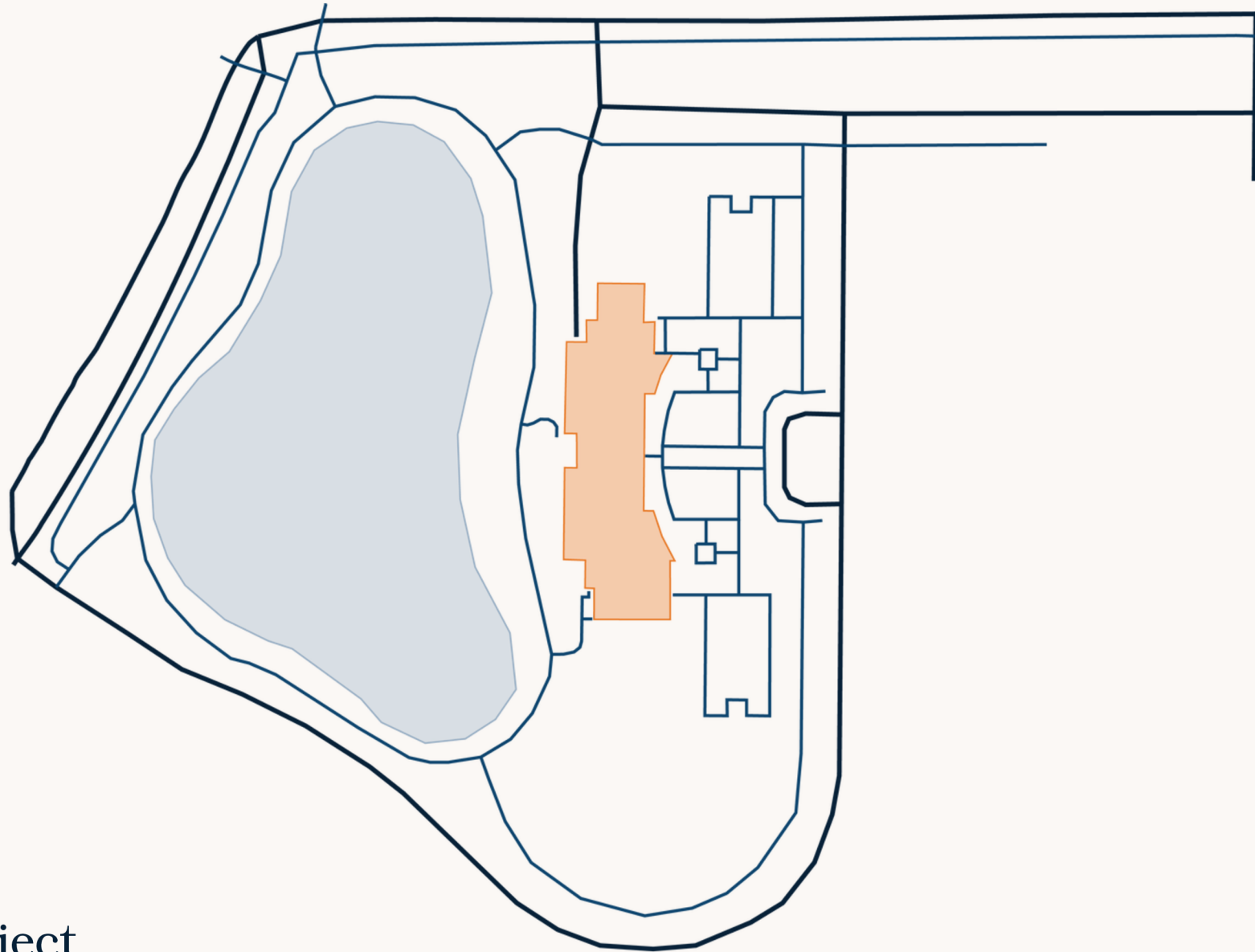
● Tiger Transit Stop

# DIAGRAMS



Traffic  
*Monday at 5pm*  
500 Meter Radius

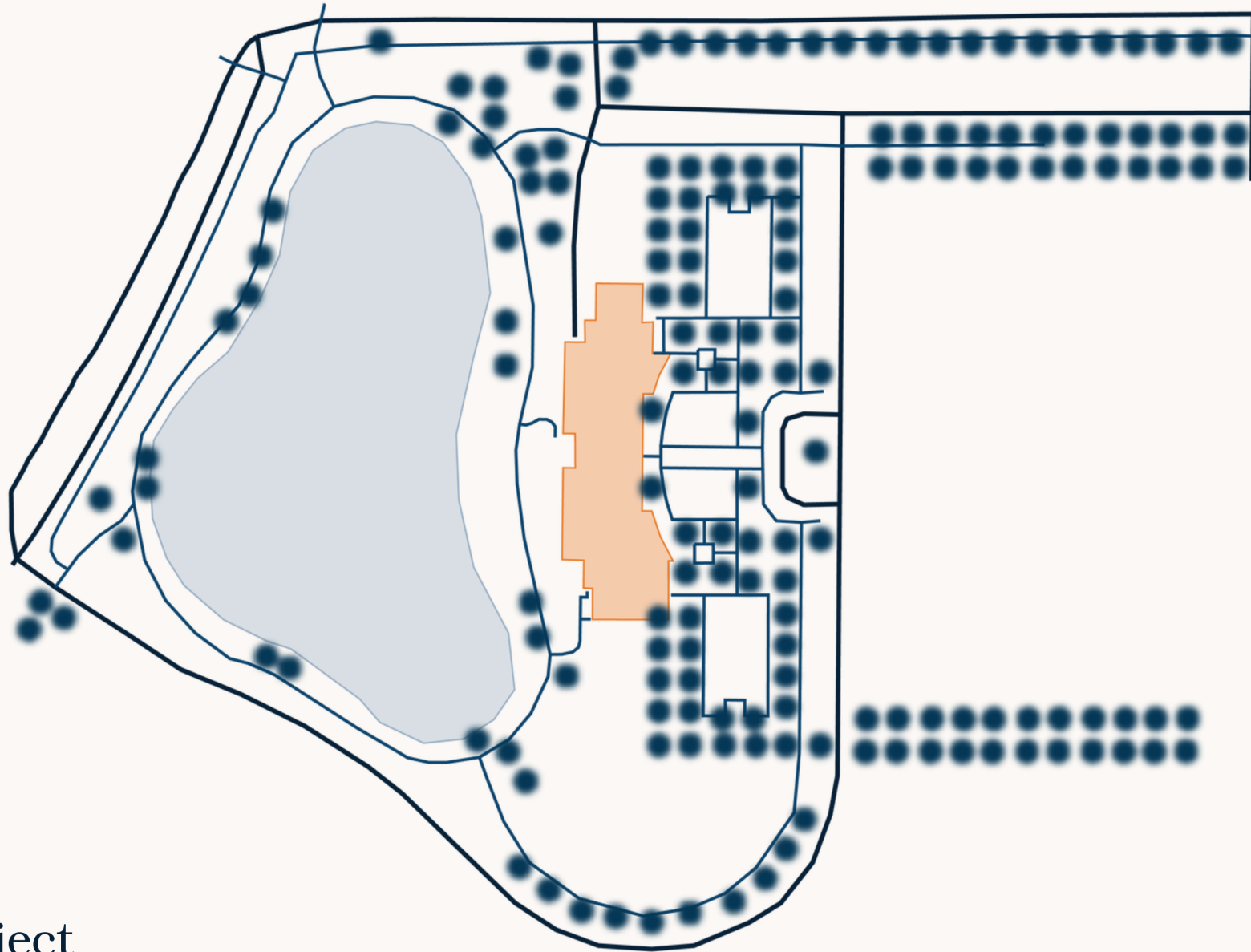
# DIAGRAMS



Project  
Site

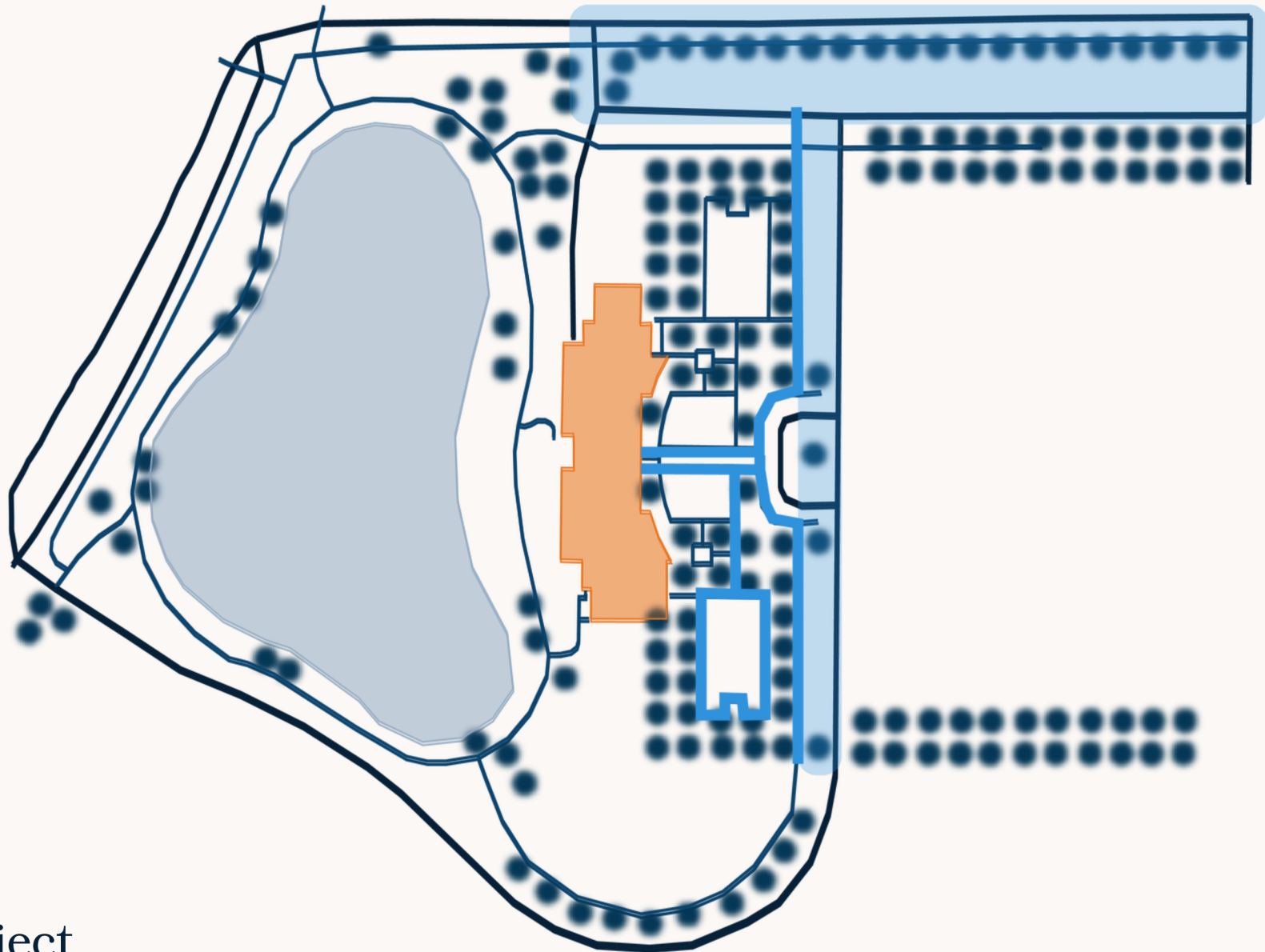


# DIAGRAMS





Project  
Site  
● Trees

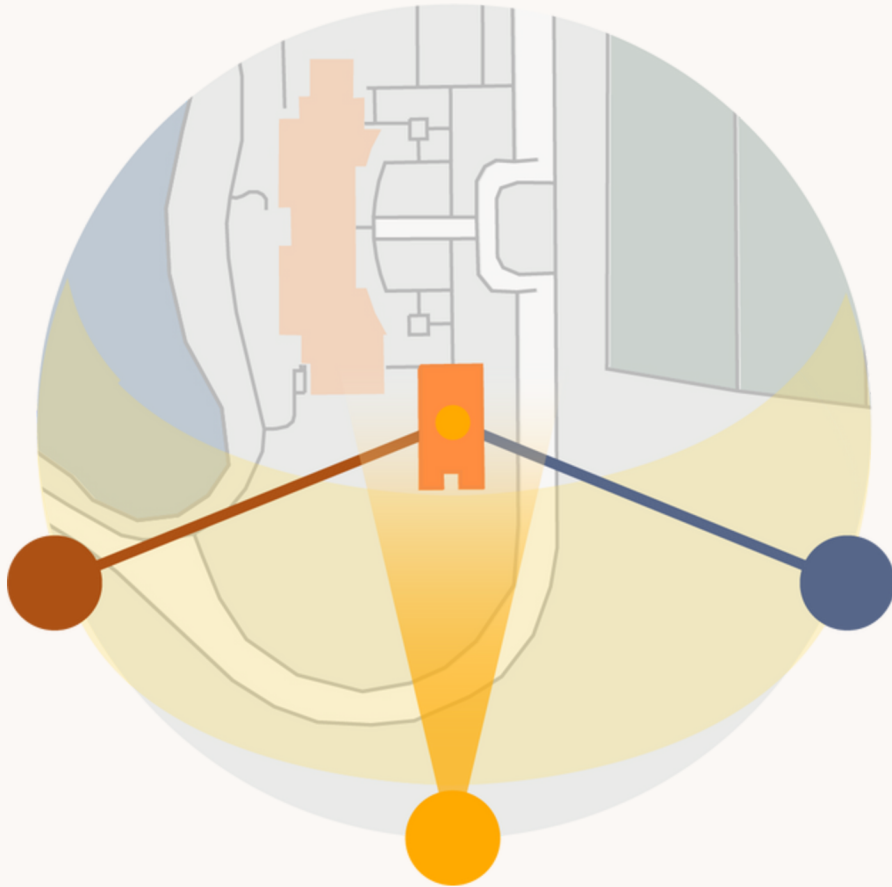
# DIAGRAMS



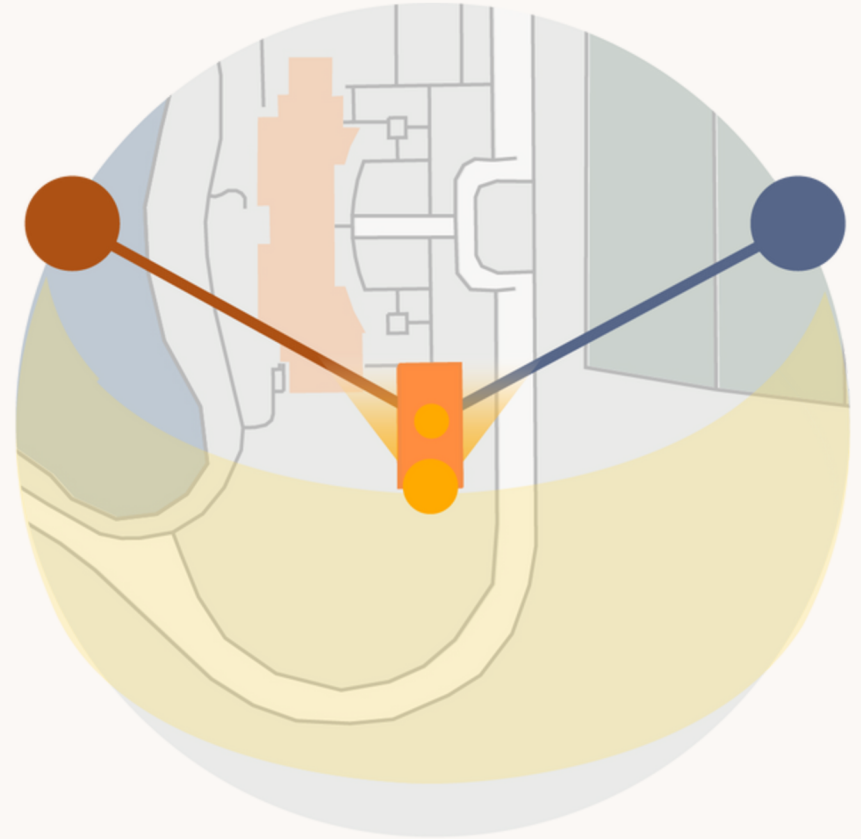
Project  
Site

-  Parking
-  Circulation to  
Museum and Site

# DIAGRAMS



Sun Path  
Diagram  
Winter



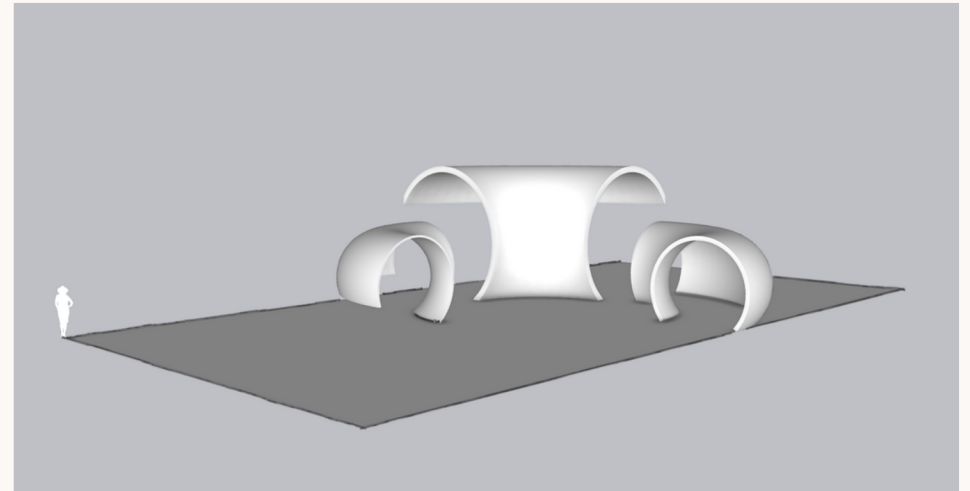
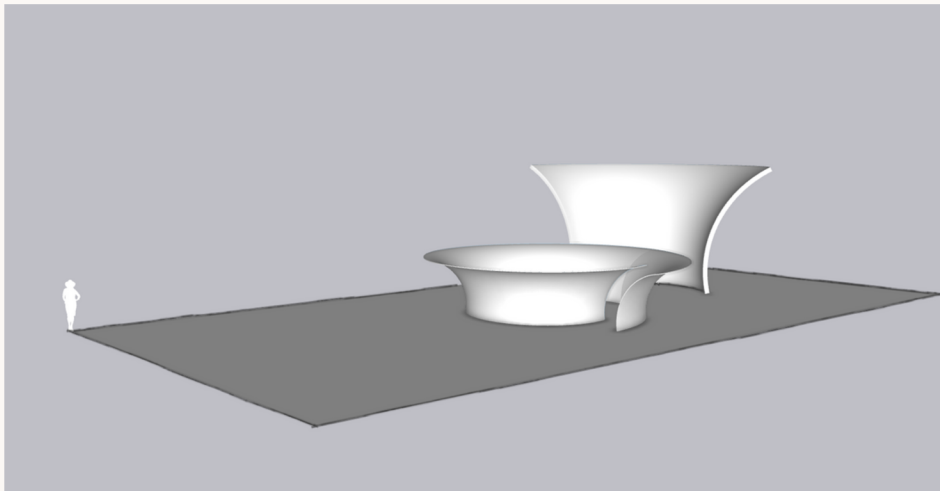
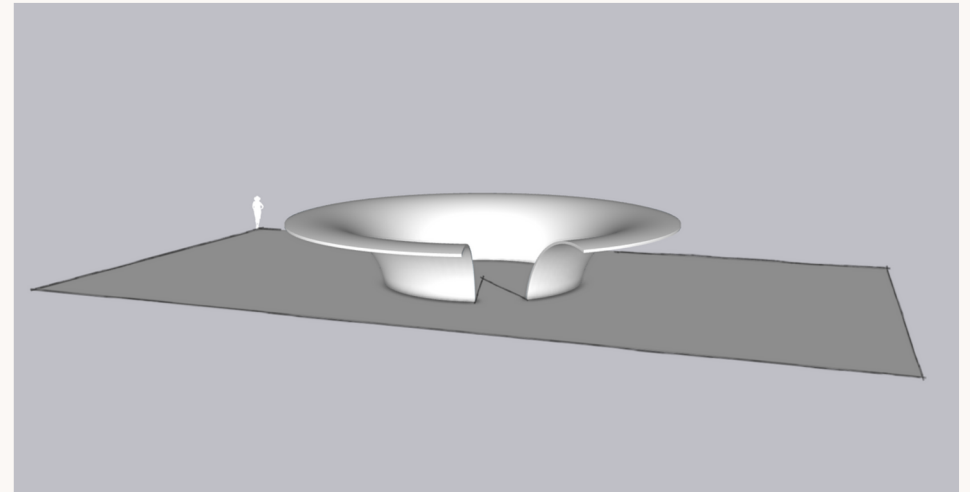
Sun Path  
Diagram  
Summer

# INITIAL CONCEPT

# INITIAL CONCEPT

## Developing Concepts

When designing this space, I moved away from replicating an Azalea in its entirety and instead embraced a deconstructed interpretation of the flower. By separating its elements, I aimed to capture the spirit and atmosphere of the Azalea in a more abstract and dynamic way.





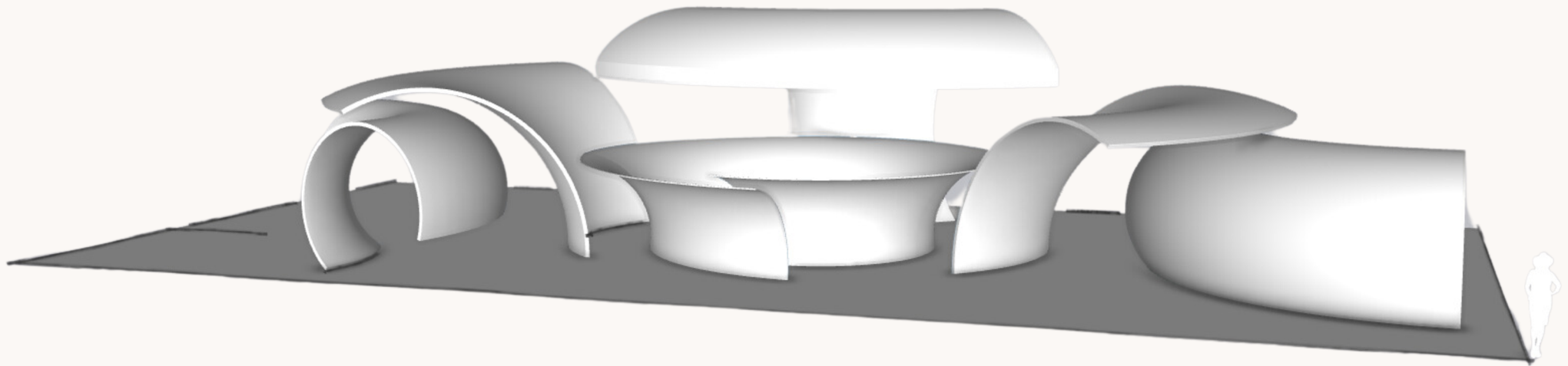
# INITIAL CONCEPT

## Final Concept

This Pavilion celebrates Alabama's natural heritage and Auburn's tradition of hybridizing native azaleas, deconstructing the form of a flower to embody growth, sustainability, inclusivity, and community engagement. The curved "petals" of its roof integrate solar panels, generating renewable energy, while kinetic energy pads in the flooring provide an interactive way for visitors, especially children, to learn about sustainability. Vibrant walls made of concrete embedded with recycled glass bottles create colorful reflections during the day and illuminate the interior at night, minimizing energy use. Accessibility is central to the design, with wide walkways, wheelchair-accessible seating, and interactive elements that cater to diverse visitors, ensuring an inclusive experience. The pavilion's central spiral houses a lecture space for workshops, discussions, and educational programs, surrounded by flexible seating that encourages collaboration and relaxation. As a community landmark, its dynamic light and color interplay evoke the beauty of azaleas, creating a space where sustainability and connection flourish.

# INITIAL CONCEPT

Final Concept



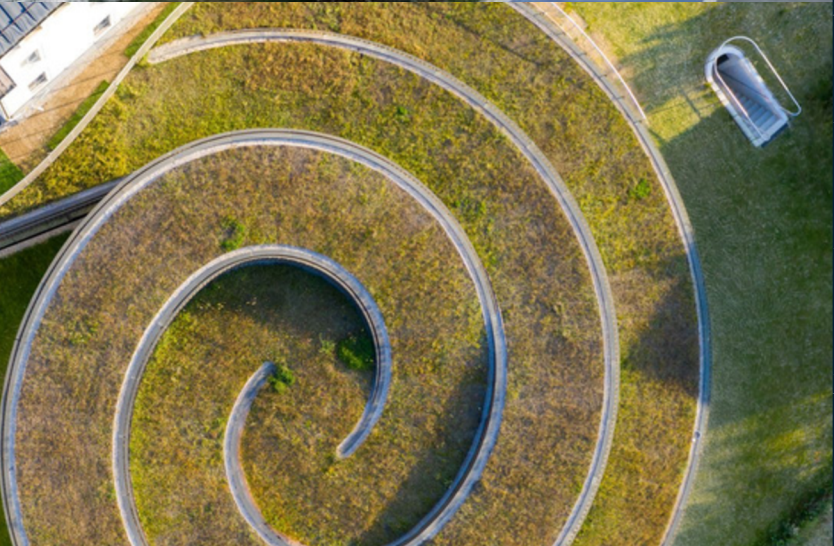
# PRECEDENTS RESEARCH



# INTERCHANGE PAVILION



# EMERALD SCREEN PERGOLA



# MUSÉE ATELIER AUDEMARS PIGUET



# INTERCHANGE PAVILION

Studio Chris Fox

The Interchange Pavilion addresses sustainability by making use of precision-engineered materials and construction techniques. The structure is composed of “over 3200 digitally fabricated parts” and wrapped with “1400 pieces of router cut Australian hardwood,” which are sustainably sourced. This approach minimizes material waste and promotes environmental stewardship. By blending organically with the surrounding landscape, the pavilion reduces its ecological impact while creating a design that honors its location.





# INTERCHANGE PAVILION

Inclusivity is inherent in the pavilion's design, as it creates a welcoming and accessible space for all visitors. The amphitheater, with "timber seats carefully integrated into the internal cladding system," provides a comfortable area for people to gather, relax, or participate in community events. Its shaded and open design ensures that individuals from all walks of life can enjoy the space in comfort, encouraging diverse interactions.

Community engagement is at the heart of the pavilion, which serves as a tribute to "the diverse stories and journeys of people connected to the Eveleigh Rail Yards." Its recognition of the precinct's rail history connects visitors to the cultural identity of the area. The space's flexible functionality, supporting both planned performances and informal gatherings, makes it a vibrant hub for communal activities and storytelling, increasing the connection between visitors and the local community.





# EMERALD SCREEN PERGOLA

Wutopia Lab

The Emerald Screen Pergola integrates sustainability by combining modern materials with natural elements. The structure features a steel framework overlaid with climbing plants, which will evolve into a living, green canopy over time. This design not only reduces the reliance on additional construction materials but also enhances biodiversity and improves air quality in the surrounding area. The blend of contemporary architecture with natural growth reflects a thoughtful approach to environmental harmony.





# EMERALD SCREEN PERGOLA

Inclusivity is reflected in the pavilion's multi-functional design, which "opens, closes, stands alone, overlaps, and even disappears." These adaptable forms create an inviting space for diverse users, whether they seek a quiet moment of reflection or wish to participate in cultural activities. By blending traditional Chinese garden elements with modern aesthetics, the pavilion appeals to a wide audience, ensuring a sense of belonging for all visitors.

Community engagement is evident in the pavilion's role as a cultural focal point. It is designed to host "a series of cultural activities related to flowers," preserving and celebrating traditional Chinese motifs in a contemporary context. Serving as a gateway to the park and corridor, the pavilion invites visitors to interact with both the natural and cultural heritage of the space. Its innovative design inspires appreciation for the fusion of art, architecture, and nature.





# MUSÉE ATELIER AUDEMARS PIGUET

Bjarke Ingels Group

The Musée Atelier Audemars Piguet emphasizes sustainability through its seamless integration into the natural landscape of the Vallée de Joux. The building's design adheres to Swiss Minergie standards for energy efficiency, ensuring a minimal environmental footprint. Additionally, the museum is powered by 100% renewable energy, demonstrating a commitment to sustainable operations. By combining contemporary architecture with traditional craftsmanship, the museum reflects a balance between innovation and environmental responsibility.





# INTERCHANGE PAVILION

Inclusivity is important to the museum's design, as it provides an immersive and accessible experience for visitors. The spiral architecture "seamlessly rising from the ground" offers a space that allows for exploration and interaction within the design. Its open layout and thoughtful spatial organization ensure that visitors from diverse backgrounds can engage with the exhibits, enhancing their understanding of Audemars Piguet's heritage.

Community engagement is fostered through the museum's focus on preserving the culture and history of the region. By housing the Grandes Complications and Métiers d'Art Ateliers at its core, the museum provides a space for artisans to demonstrate their skills, connecting visitors to the continued tradition of watchmaking. This celebration of local craftsmanship not only strengthens its connection to the community but also increases appreciation for the artistry and precision that define the brand.



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